

ABSTRACT OF THE DISCLOSURE

When shifting the gear position into a target gear position from a current gear position, some gear position different from said current gear position is used as one distributing gear position. The control unit

5 controls the pressing load of a synchromesh of one distributing gear position to make at least part of the rotation torque from the drive power source transfer by the friction. Thereby it makes at least part of the rotation torque transferred by a synchromesh of the current gear position decrease. And then it moves the synchromesh of said current gear

10 position to a disengaging position not meshed with said idle gear. Thereafter another gear position different from said target gear position and said one distributing gear position is used as another distributing gear position. So that it controls the pressing load of the synchromesh of another distributing gear to make the transfer torque increase gradually by

15 the friction, and simultaneously makes the pressing load of the synchromesh of one distributing gear position decrease gradually. Besides such a distribution of transfer torque, it makes the speed of said input shaft synchronize with the speed corresponding to said target gear position by controlling the speed of said input shaft, and then moves the

20 synchromesh of the target gear position to the meshing position.